an VIII 6; 197 Satur u y Nev. gentlemen! a yesterday received with the liveliest satisfaction the two ramain, ring quarters of your elaborate and beautiful map of the moon's surface together with the treatise arrow, panying them as also your maps of the surface of Mars. Tray avocast my best shanks for this externed and valuable present, and at the same time my hearty congratulation on the confection of a work of such very great labour and difficulty as well as importance. The want of such mayes has long been felt and regretted: Had the Missionaries to whom they were intrusted arrived two months later, we should have quitted the Cape I expect to arrive in England some time in May and it is not impossible that during the Jummer I may have the pleasure to thank you in person for this mark of your attention, as I propose visiting then mover soon after my arrival in England, and if Sime will permit should be very Desirous to come as far as Beelin - if it were only for the sake of saying my respects to yourselves and your ad mirable Enote! When last I whole to you on the receipt of your former maps, I spoke with heritation above the 6th (20) Salellite of Satura. Since that time (in May last) I have has the satisfaction of observing it several times in a most unequivocal manner, and fracing it through several nevolutions in its orbit. But the yth (1) lelu, ded all my research. The great Refractor preparing for the Ochersburg Observatory will however, I hope show it? Thave also procured a fine teries of micro, metrical measures of all the other sutellises in every wination with respect to the primary - the closest and smallest of them being easily observed at its superior and inferior conjunctions. The measures are referred at snow to the rings major asis by a peruliar model of observation pohich gives such very good and accorn Ling results that I only negret no chaving his)

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A and B are two very thick parallel wires, distant enough to take in easily between them the plane of and Ring . I measu, re the apparent elongation or the angle a Sa of a Satellite a from the line of I drive or the augle and , the planet in livel place between the wires so as in (fig I) so sland symme, frically of which the eye will judge with leatherne precision the graduated division being read off. They are next placed as in fig 2. and it is surprising how very correctly with a little practice this may be some so that the line So shall be parallel to the direction of the wires. This being done alter, nakely 3,5 or I times (so as to leave off with the position No 1.) - all change of siduation with respect to the horizon So. is eliminated. is one of very great interior. The Star of Argus (marked in Bode's Map as of Probus Caroli) has always Shitherto been regarded as a Star of the second magnitude or an most as (21) Turing the form years I have had fix as it were) continually under my eye, by reason of the great nebula which I have been taking which I have been taking most careful transings. I have always considered it as (2.1) and never has reason to suppose it variable. In Nav 1837 I vaw it as usual. Judge of my surprise to find on the 16.14. December that it had suddenly become a Har of the first may, nitude and almost equal to Rigel . - It continued to increase. Right is now not to be compared to it, it excells Archives, and is very nearly equal to a Butauri, being at the moment when I write, the fourth Has in the blavers in order of brightness! I remains, genslemen, your obliged and faithful Fernant P. S. you will ablige me by communicating the alove mention ned fact respecting of Argus to Prof. Schumacher, as perhaps he may think it worth nothing in the Astron. Nachrichten or R.J. The total erlipse of the moon last year was finely seen here. The whole disk was well seen with the nacked eye, intersely red like a glowing coal _ all the spots will recal in the becope many occallations sook place of very minute stars and a faind nebula was traced up almost to the very edge of the disame It would have been interesting under to have Sent total des testes I seen a nebula occulter.